

REMARKS

I. Status of the Claims:

Claims 1-20 were pending in the present application prior to this submission. All of pending claim 1-20 were rejected by the Examiner in the previous Non-Final Office Action.

Claims 1-14 and 16-20 have been amended in this response. In addition, claim 15 has been canceled herein without prejudice or disclaimer. No new matter has been introduced in this submission, and thus, entry and consideration are respectfully requested.

II. Response to Objections to the Drawings:

The Examiner objected to various informalities in the drawings. In particular, the Examiner requested that descriptive language be used to identify each element in the drawings.

The Examiner did not specifically identify drawings that required correction in the April 28, 2009 Office Action. Therefore, Applicants endeavored to review the drawings and determined that FIG. 1, 2 and 9-11 should be revised as these drawings included blank elements whose purpose may not be self-evident without further consulting the specification.

In response to the objections to the drawings, Applicants have submitted revised drawings for FIG. 1, 2 and 9-11 herewith. All amended drawing sheets have been labeled with the indicia "REPLACEMENT SHEET" in accordance with 37 C.F.R. §1.121(d).

In view of the above, Applicants respectfully request that the objections to the drawings now be withdrawn.

III. Response to Objections to the Specification:

The Examiner objected to various informalities in the specification. In particular, the Examiner indicated that grammatical and/or typographical errors needed to be corrected, and that some of terminology utilized in the specification required clarification.

In response to the objections to the specification, Applicants have amended the specification to rectify the deficiencies identified by the Examiner. Moreover, in reviewing the disclosure the Applicants have also endeavored to correct any other issues discovered therein.

In view of the above, Applicants respectfully request that the objections to the specification now be withdrawn.

IV. Response to Objections to the Claims:

The Examiner has objected to claims 6, 8-13, 15, 16 and 18-20 based on various informalities. In particular, the Examiner has requested the clarification of terms in the claims.

Reconsideration is respectfully requested in view of the claim amendments and remarks presented herein. Applicants have attempted to rectify the issues in the pending claims that were identified by the Examiner. The Examiner stated, “Claim 13, the closed parenthesis (both occurrences) preceding ‘p’ does seem appropriate.” Applicants respectfully request more specificity regarding the issue that the Examiner is attempting to point out in pending claim 13.

In view of the above, Applicants respectfully request that the objections to the claims now be withdrawn.

V. Response to Claim Rejections under 35 U.S.C. §101:

Claims 1-16 stand rejected under 35 U.S.C. §101 because the claimed invention is not directed towards statutory subject matter. The Examiner alleges that claims 1-16 are not tied to another statutory category (such as a particular apparatus) and do not transform underlying subject matter (such as an article or material) to a different state or thing per *In re Bilski*.

Applicants respectfully request reconsideration in view of the claim amendments and remarks presented herein. Amended claim 1 clarifies the relationship between method steps and an apparatus for performing these steps. As a result, Applicants believe that the amended claims establish a suitable link between method and apparatus, for example, as “establishing” and “synchronizing” would not be part of a series of steps completely performed mentally.

In view of the above, Applicants respectfully request that the 35 U.S.C. §101 rejections now be withdrawn.

VI. Response to Claims Rejections under 35 U.S.C. §112

Claim 17 stands rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In particular, the Examiner alleges that the specification fails to identify a structure corresponding to the subject matter of claim 17.

Applicants respectfully request reconsideration in view of the claim amendments and remarks presented herein. An example of a system that may exhibit the characteristics of the claimed embodiment of the present invention, as amended, may be seen, for example, in FIG. 11. In view of the above, Applicants respectfully request that the 35 U.S.C. §112, second paragraph, rejection now be withdrawn.

VII. Response to Claim Rejections - 35 U.S.C. §102(e) and 35 U.S.C. §103(a):

Claims 1-7 and 14-17 stand rejected under 35 U.S.C. §102(b) as being anticipated by Seo Jae-Hyun et al. (European Application Publication EP 1 195 961 A2, hereafter “Seo”). Claims 8-13 and 18-20 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Seo, taken alone. In particular, the Examiner alleges that claims 1-20 are anticipated by, or at least obvious in view of, the Seo reference.

Reconsideration of the present application is respectfully requested in view of the claim amendments and remarks presented herein. For example, amended claim 1 now recites:

1. (Currently Amended) A method, comprising:
 - receiving into an apparatus a multi-carrier transmission time-sliced into bursts, wherein the multicarrier transmission comprises one or more symbols each including a plurality of carriers;
 - establishing in the apparatus a correspondence pattern matrix for pilot carriers by accessing at least two symbols from the multi-carrier transmission;
 - correlating in the apparatus carriers of the first symbol with the corresponding carriers of the second symbol within the matrix;
 - determining in the apparatus a correlation maximum indicating a pilot carrier position; and
 - synchronizing the apparatus to the multi-carrier transmission bursts by finding the index of received symbols based on the pilot carrier position.

The embodiment of the present invention recited in amended claim 1 incorporates substantially all of the limitations of original claim 15, which has been canceled herein without prejudice or disclaimer. Support for any revised language included in these amendments may also be found in at least paragraphs [0045]-[0048] of the published application. Amended claim 1, in addition to providing further clarity regarding the originally claimed embodiment of the present invention, further sets forth that synchronization is performed for the apparatus by

finding the index of received symbols based on the pilot carrier position. In particular, the claimed embodiment of the present invention advantageously utilizes pilot carrier position for accessing symbols and determining timing for reception time-sliced multi-carrier transmissions, where it is important to rapidly synchronize the reception into the rhythm of the relevant bursts.

While the Seo reference makes reference to OFDM reception and transmission, these interactions are not based on time-sliced bursts as expressly recited in claim 1, as amended. Correspondingly, any recitation of pilot carrier position use in Seo is also not based on bursts.

In view of the above, Applicants respectfully assert that claim 1, as amended, is clearly distinguishable from the Seo reference. The other pending independent claims have been amended in a manner similar to claim 1, and thus, are asserted to be likewise distinguishable. Other pending claims not specifically discussed above are distinguishable at least for depending from the aforementioned independent claims. Applicants therefore respectfully request that the 35 U.S.C. §102(e) and 35 U.S.C. §103(a) rejections to the pending claims now be withdrawn.

CONCLUSION

Based on the foregoing amendments and remarks, Applicants respectfully request reconsideration, withdrawal of the claim objections/rejections and allowance of this application.

AUTHORIZATION

The Commissioner is hereby authorized to charge any additional fees which may be required for consideration of this Amendment to Deposit Account No. **504827**, Order No. **1004289-266US (4208-4310)**.

In the event that an extension of time is required, or which may be required in addition to that requested in a petition for an extension of time, the Commissioner is requested to grant a petition for that extension of time which is required to make this response timely and is hereby authorized to charge any fee for such an extension of time or credit any overpayment for an extension of time to Deposit Account No **504827**, Order No. **1004289-266US (4208-4310)**.

Respectfully submitted,
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